	Application No.	Applicant(s)
Notice of Allowability	10/082,950	WU ET AL.
	Examiner	Art Unit
	Brian T. Pendleton	2615
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicated IGHTS. This application is subject	e correspondence address application. If not included ion will be mailed in due course. THIS
1. $\boxtimes$ This communication is responsive to <u>after-final amendment</u>	<u>nt on 1/16/07</u> .	
2.  The allowed claim(s) is/are <u>1, 3-5, 7-20</u> .		
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority unalless.</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> </ul>	e been received. e been received in Application No.	
<ol> <li>Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have been received in tr	nis national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		oly complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS ( as "replacement sheets") must	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review ( PT	O-948) attached
1)  hereto or 2)  to Paper No./Mail Date		
(b) including changes required by the attached Examiner Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>	osit of BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG	L must be submitted. Note the ICAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informa	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>Interview Summa</li> <li>Paper No./Mail I</li> </ol>	
3. Information Disclosure Statements (PTO/SB/08),	7.   Examiner's Amer	ndment/Comment
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's State	ment of Reasons for Allowance
	9.  Other	
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## **DETAILED ACTION**

## Allowable Subject Matter

Claims 1, 3-5, and 7-20 are allowed.

The following is an examiner's statement of reasons for allowance: Independent claim 1 recites upsampling a first digital audio signal, low pass filtering the upsampled audio signal, and downsampling the filtered audio signal to produce a second digital audio signal, including performing linear interpolation between the filtered samples of the filtered audio signal using an accumulated linear interpolation ratio that is based on a current downsampling factor and a current phase of the second digital audio signal. Prior art references Lin and Hodges do not disclose linear interpolating between filtered samples of the filtered audio signal. Newly cited reference to Camagna et al teach sample rate converter comprising upsampler 36, low pass filter 38, and sample selector/interpolator 40 which uses the phase of the output digital signal. However, Camagna et al do not disclose using an accumulated linear interpolation ratio. Regarding independent claim 7, the art of record does not disclose nor suggest low pass filtering by applying samples of the first digital audio signal to at least two phased subsets of a plurality of phased subsets of filter coefficients to generate at least two filtered samples. Regarding claim 11, the references of record do not disclose generating an accumulated linear interpolation ratio.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian T. Pendleton Primary Examiner Art Unit 2615

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btp